

METHOD AND APPARATUS FOR A MULTI-USER VIDEO NAVIGATION
SYSTEM

5 ABSTRACT OF THE DISCLOSURE

A method for video navigation. Specifically, one embodiment of the present invention discloses a method of video presentation whereby multiple users can each view and navigate cropped windows of a live-captured or stored video sequence in compressed form. A video sequence is captured from a stationary camera. An uncompressed version and compressed version following a compression format are captured. In response to user requests, cropped windows can be navigated from one location to another within the dimensions of the video sequence. For each cropped window, data from the compressed and compressed versions are combined to generate a portion of the video sequence that is in the same compression format. Whenever possible, data from the compressed version is used, and data from the uncompressed version is substituted when necessary to generate each portion of video sequence. Transmission of each portion of video sequence to the various requesting client devices occurs contemporaneously.

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